

**TOP SECRET**J-18  
25X1M/EB 330/63  
12 August 1963  
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MEMORANDUM FOR: Chief, Military Division, OCI

ATTENTION: [REDACTED]

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Lebedev Physics Institute, USSR

1. The following data, abstracted from PAG/NPIC Memo M-47-63 [REDACTED] 63) dated 2 August 1963, is in answer to a verbal request by [REDACTED] for information on the Lebedev Physics Institute in the Crimea.

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2. The institute is covered by good quality photography of [REDACTED] and was reported and photographed in [REDACTED] by a naval attache [REDACTED]

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3. The installation is heavily secured and contains approximately 75 operational and support structures, and approximately 25 antennas. The antennas include a steerable solid reflector radio telescope 22 meters in diameter, two 22 meter wire mesh reflector antennas under construction, two 4-6 meter wire mesh reflectors with alt-azimuth mounts on roof tops, a quint-five telemetry receiver with mesh reflectors, two eight-element helices with wire reflectors, two eight-element helices with solid reflectors, an S-band interferometer under construction, approximately seven fishbone (beverage) receiving antennas oriented from South Atlantic west through Moscow, a double day transmitting rhombic and a double night transmitting rhombic oriented toward Moscow, at least two calibration towers, a possible drumhead troposcatter antenna oriented possibly toward Kharkov, and two unidentified function towers.

4. The installation has been known as the Lebedev Physics Institute, Crimean Station. Serpukhov station for this institute contains Mills Cross interferometer. The 22 meter steerable dish (paragraph 3) was tracking the sun on [REDACTED]. The presence of many varied function antennas and heavy security indicates this installation has a more significant function than long-haired astronomy.

5. The helices are believed to be utilized for receiving satellite telemetry [REDACTED]. The 4-6 meter wire mesh reflector antennas are believed to be the FLIM FLAM satellite tracking station. The 22 meter wire mesh reflector antennas are believed to be for some future program. The S-band interferometer will be used for

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future high accuracy acquisition. The fishbone receiving antennas cover all locations of capsule triggering ships in the Atlantic and Mediterranean. They also receive HF transmissions from Moscow. The rhombics and possible drumhead provide 24 hour operating capability to Moscow.

6. The institute is the subject of further investigation by PAC photo interpretation and NSA analysts. A report on this facility should be fourth coming.

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